



## HDPE DRAIN PIPE SYSTEM



| Product Catalogue

# Company Introduction

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Acu-Tech Piping Systems is a manufacturer and supplier specialising in complete polyethylene (HD-PE) pipe systems and solutions for fluid / gas transfer and cable protection.

Working directly with owners, engineers and contractors, Acu-Tech helps to create pipeline assets which are both durable and cost-effective.

Acu-Tech supplies complete, application specific pipe system packages including valves, fusion welding equipment, training and technical support.


A lot has changed since Acu-Tech was founded in 2000 by Ivan Morren operating from 3 sea containers, and the company continues to innovate and evolve. Now with a team of 80 at our state-of-the-art 38,500m<sup>2</sup> facilities in Perth and Melbourne, we offer the complete package.

*What hasn't changed is our positive 'can do' culture and our commitment to building long term relationships.*



CALL US NOW ON 1300 270 270





*In every industry and with every service,  
we can be relied upon to deliver the right  
solution at the best value.*

## What makes us different?

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
















- We *listen* and work closely with our clients to understand their challenges.
- We help *define* the solution that is right for them using our materials, technology, training and installation methodology.
- We *solve* problems drawing on our breadth of knowledge and experience, and our supply capabilities.
- We can, finally, *deliver* pipeline solutions that are right for the industries we serve.



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## Notes on the use of this catalogue

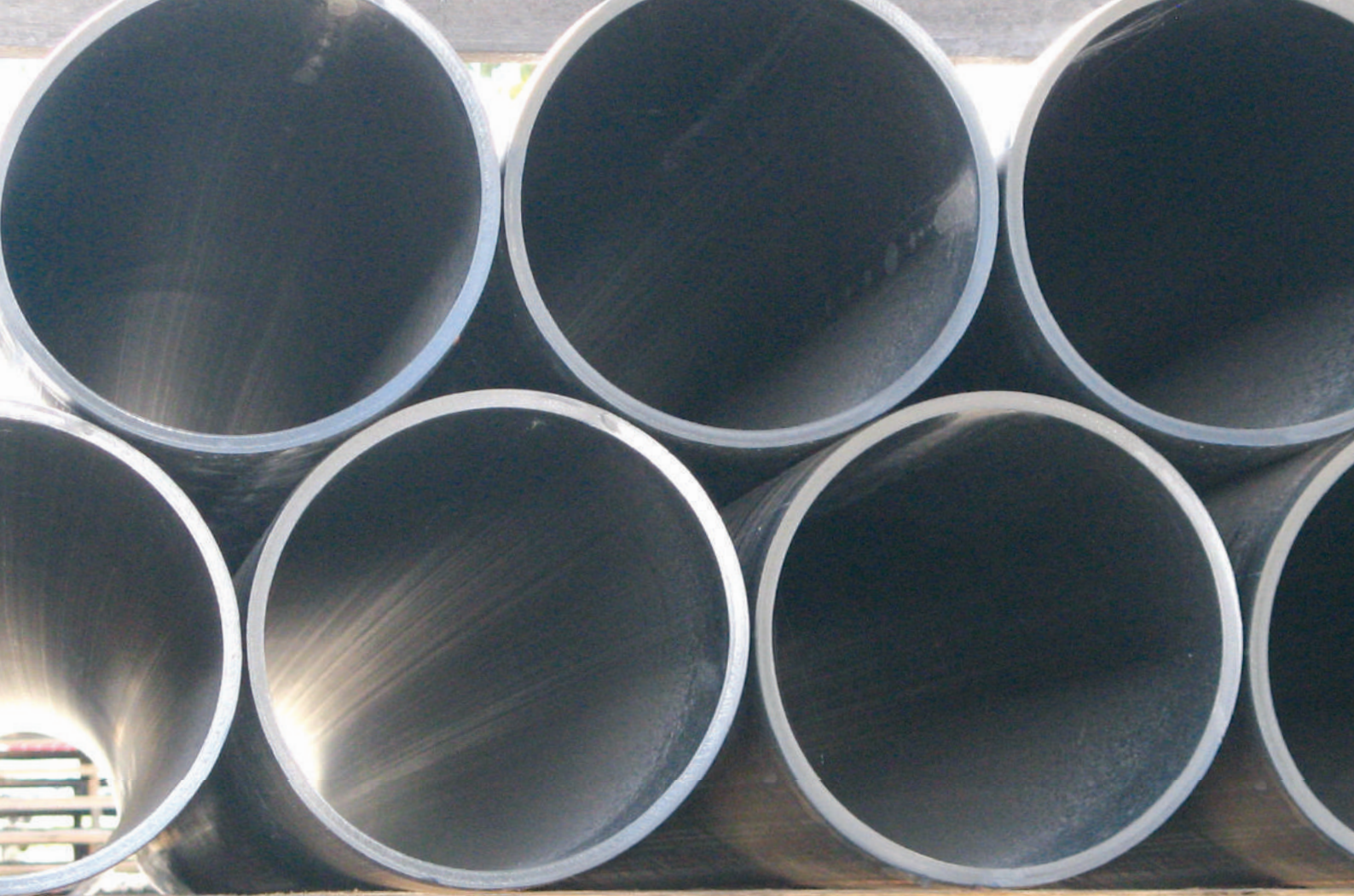
**Acu-Tech Piping Systems** provides the technical information contained in this catalogue as a guide to plumbers. However it is not possible to include all the technical information that needs to be taken into account when designing a system. Plumbers and Engineers should refer to the applicable Australian Standards and also the requirements of the local authorities.

All dimensions shown in this catalogue are intended as a guide only, and may change without notice. 'Nominal Bore' indicates the equivalent DWV size. If exact measurements are required, please contact our sales team.

Please contact our sales team if there is any items required which are not shown in this catalogue. We are also able to source and supply a wide range of associated products such as valves and non-standard flanges etc.

If you require further technical information or assistance please contact Technical Sales on 1300 270 270. Whilst every effort has been made to ensure the accuracy of the information provided, no responsibility is accepted for errors or omissions.





### Drainage Pipe

| Pipe Size mm | Nominal Bore | Pack Code | Qty | SDR   |
|--------------|--------------|-----------|-----|-------|
| 50           | 40           | 300005    | 10  | SDR26 |
| 56           | 50           | 300006    | 10  | SDR26 |
| 63           | 50           | 300007    | 10  | SDR26 |
| 75           | 65           | 300009    | 10  | SDR26 |
| 90           | 80           | 300011    | 10  | SDR26 |
| 110          | 100          | 300013    | 10  | SDR26 |
| 125          | 115          | 300015    | 5   | SDR26 |
| 160          | 150          | 300017    | 5   | SDR26 |
| 200          | 184          | 300019    | 4   | SDR26 |
| 200          | 187          | 300020    | 4   | SDR33 |
| 250          | 230          | 300021    | 2   | SDR26 |
| 250          | 234          | 300022    | 2   | SDR33 |
| 315          | 290          | 300023    | 1   | SDR26 |
| 315          | 296          | 300024    | 1   | SDR33 |





### Drain EF Coupling

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 50              | 40           | 350003 | 10      |
| 56              | 50           | 350004 | 10      |
| 63              | 50           | 350005 | 10      |
| 75              | 65           | 350007 | 10      |
| 90              | 80           | 350009 | 10      |
| 110             | 100          | 350011 | 10      |
| 125             | 115          | 350013 | 5       |
| 160             | 150          | 350015 | 5       |



### 88.5° Bend

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 50              | 40           | 304003 | 5       |
| 56              | 50           | 304004 | 15      |
| 63              | 50           | 304005 | 15      |
| 75              | 65           | 304007 | 15      |
| 90              | 80           | 304009 | 10      |
| 110             | 100          | 304011 | 15      |
| 125             | 115          | 304013 | 10      |
| 160             | 150          | 304015 | 1       |



### Drain EF Coupling (Large ø)

| Fitting Size mm | Nominal Bore | Code     | Box Qty |
|-----------------|--------------|----------|---------|
| 200             | 185          | 20140200 | 4       |
| 250             | 225          | 20140250 | 2       |
| 315             | 300          | 20140315 | 1       |



### 90° Segmented Bend

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 200             | 185          | 304017 | 1       |
| 250             | 225          | 304021 | 1       |
| 315             | 300          | 304023 | 1       |





### 45° Bend

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 50              | 40           | 306005 | 15      |
| 56              | 50           | 306006 | 15      |
| 63              | 50           | 306007 | 15      |
| 75              | 65           | 306009 | 10      |
| 90              | 80           | 306011 | 15      |
| 110             | 100          | 306013 | 10      |
| 125             | 115          | 306015 | 10      |
| 160             | 150          | 306017 | 1       |



### 30° Bend

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 110             | 100          | 302013 | 1       |
| 160             | 150          | 302017 | 1       |



### 45° Segmented Bend

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 200             | 185          | 306019 | 1       |
| 250             | 225          | 306021 | 1       |
| 315             | 300          | 306023 | 1       |



### 15° Bend

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 110             | 100          | 301542 | 1       |
| 160             | 150          | 301550 | 1       |





### 60° Segmented Bend

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 110             | 100          | 303411 | 1       |
| 125             | 115          | 303413 | 1       |
| 160             | 150          | 303415 | 1       |
| 200             | 185          | 303417 | 1       |
| 250             | 225          | 303419 | 1       |
| 315             | 300          | 303421 | 1       |



### 15° Segmented Bend

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 110             | 100          | 303111 | 1       |
| 125             | 115          | 303113 | 1       |
| 160             | 150          | 303115 | 1       |
| 200             | 185          | 303117 | 1       |
| 250             | 225          | 303119 | 1       |
| 315             | 300          | 303121 | 1       |



### 30° Segmented Bend

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 110             | 100          | 303211 | 1       |
| 125             | 115          | 303213 | 1       |
| 160             | 150          | 303215 | 1       |
| 200             | 185          | 303217 | 1       |
| 250             | 225          | 303219 | 1       |
| 315             | 300          | 303221 | 1       |



### 5° Segmented Bend

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 110             | 100          | 303011 | 1       |
| 125             | 115          | 303013 | 1       |
| 160             | 150          | 303015 | 1       |
| 200             | 185          | 303017 | 1       |
| 250             | 225          | 303019 | 1       |
| 315             | 300          | 303021 | 1       |



### 45° Junction

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 50 x 50         | 40 x 40      | 309005 | 30      |
| 56 x 50         | 50 x 40      | 310006 | 30      |
| 56 x 56         | 50 x 50      | 309006 | 30      |
| 63 x 50         | 50 x 40      | 310007 | 30      |
| 63 x 56         | 50 x 50      | 310008 | 30      |
| 63 x 63         | 50 x 50      | 309007 | 30      |
| 75 x 50         | 65 x 40      | 310011 | 30      |
| 75 x 56         | 65 x 50      | 310012 | 30      |
| 75 x 63         | 65 x 50      | 310014 | 30      |
| 75 x 75         | 65 x 65      | 309009 | 20      |
| 90 x 50         | 80 x 40      | 310015 | 20      |
| 90 x 56         | 80 x 50      | 310006 | 20      |
| 90 x 63         | 80 x 50      | 310018 | 20      |
| 90 x 75         | 80 x 65      | 310010 | 20      |
| 90 x 90         | 80 x 80      | 309011 | 20      |
| 110 x 50        | 100 x 40     | 310019 | 20      |
| 110 x 56        | 100 x 50     | 310020 | 20      |
| 110 x 63        | 100 x 50     | 310021 | 20      |
| 110 x 75        | 100 x 65     | 310023 | 20      |
| 110 x 90        | 100 x 80     | 310025 | 20      |
| 110 x 110       | 100 x 100    | 309013 | 10      |
| 125 x 110       | 115 x 100    | 310037 | 10      |
| 125 x 125       | 115 x 115    | 309015 | 10      |
| 160 x 110       | 150 x 100    | 310039 | 5       |
| 160 x 125       | 150 x 115    | 310041 | 5       |
| 160 x 160       | 150 x 150    | 309017 | 5       |



### 45° Fabricated Junction

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 200 x 110       | 185 x 100    | 310043 | 1       |
| 200 x 125       | 185 x 115    | 310045 | 1       |
| 200 x 160       | 185 x 150    | 310047 | 1       |
| 200 x 200       | 185 x 185    | 309019 | 1       |
| 250 x 110       | 225 x 100    | 310049 | 1       |
| 250 x 125       | 225 x 115    | 310051 | 1       |
| 250 x 160       | 225 x 150    | 310053 | 1       |
| 250 x 200       | 225 x 185    | 310055 | 1       |
| 250 x 250       | 225 x 225    | 309021 | 1       |
| 315 x 110       | 300 x 100    | 310057 | 1       |
| 315 x 125       | 300 x 115    | 310059 | 1       |
| 315 x 160       | 300 x 150    | 310061 | 1       |
| 315 x 200       | 300 x 185    | 310063 | 1       |
| 315 x 250       | 300 x 225    | 310065 | 1       |
| 315 x 315       | 300 x 300    | 309023 | 1       |



### 45° Double Junction

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 110 x 110       | 100 x 100    | 314005 | 10      |



### 88.5° Junction

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 50 x 50         | 40 x 40      | 312005 | 30      |
| 56 x 50         | 50 x 40      | 313002 | 30      |
| 56 x 56         | 50 x 50      | 312006 | 30      |
| 63 x 50         | 50 x 40      | 313012 | 30      |
| 63 x 56         | 50 x 50      | 313032 | 30      |
| 63 x 63         | 50 x 50      | 312007 | 30      |
| 75 x 50         | 65 x 40      | 313005 | 30      |
| 75 x 56         | 65 x 50      | 313006 | 30      |
| 75 x 63         | 65 x 50      | 313010 | 30      |
| 75 x 75         | 65 x 65      | 312009 | 20      |
| 90 x 50         | 80 x 40      | 313009 | 20      |
| 90 x 56         | 80 x 50      | 310006 | 20      |
| 90 x 63         | 80 x 50      | 313028 | 20      |
| 90 x 75         | 80 x 65      | 313036 | 20      |
| 90 x 90         | 80 x 80      | 312011 | 20      |
| 110 x 50        | 100 x 40     | 313013 | 20      |
| 110 x 56        | 100 x 50     | 313014 | 20      |
| 110 x 63        | 100 x 50     | 313015 | 20      |
| 110 x 75        | 100 x 65     | 313017 | 20      |
| 110 x 90        | 100 x 80     | 313019 | 20      |
| 110 x 110       | 100 x 100    | 312013 | 10      |
| 160 x 110       | 150 x 100    | 313023 | 5       |
| 160 x 160       | 150 x 150    | 312017 | 5       |



### 88.5° Fabricated Junction

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 200 x 110       | 185 x 100    | 313027 | 1       |
| 200 x 125       | 185 x 115    | 313029 | 1       |
| 200 x 160       | 185 x 150    | 313031 | 1       |
| 200 x 200       | 185 x 185    | 312019 | 1       |
| 250 x 110       | 225 x 100    | 313033 | 1       |
| 250 x 125       | 225 x 115    | 313035 | 1       |
| 250 x 160       | 225 x 150    | 313037 | 1       |
| 250 x 200       | 225 x 185    | 313039 | 1       |
| 250 x 250       | 225 x 225    | 312021 | 1       |
| 315 x 110       | 300 x 100    | 313041 | 1       |
| 315 x 125       | 300 x 115    | 313043 | 1       |
| 315 x 160       | 300 x 150    | 313045 | 1       |
| 315 x 200       | 300 x 185    | 313047 | 1       |
| 315 x 250       | 300 x 225    | 313049 | 1       |
| 315 x 315       | 300 x 300    | 312023 | 1       |



### 88.5° Swept Junction

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 110 x 110       | 100 x 100    | 312025 | 10      |





### 88.5° Double Junction

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 110 x 110       | 100 x 100    | 318005 | 10      |

Note: Larger diameters fabricated to order.



### Expansion Socket

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 50              | 40           | 328003 | 15      |
| 56              | 50           | 328004 | 15      |
| 63              | 50           | 328005 | 15      |
| 75              | 65           | 328007 | 10      |
| 90              | 80           | 328009 | 15      |
| 110             | 100          | 328012 | 10      |
| 160             | 150          | 328015 | 1       |
| 200             | 185          | 328017 | 1       |
| 250             | 225          | 328019 | 1       |
| 315             | 300          | 328021 | 1       |



### Horizontal Inspection Access Pipe

| Fitting Size mm | Nominal Bore | Code    | Box Qty |
|-----------------|--------------|---------|---------|
| 50              | 40           | 348003  | 1       |
| 56              | 50           | 348004  | 1       |
| 63              | 50           | 348005  | 1       |
| 75              | 65           | 348007  | 1       |
| 90              | 80           | 348009  | 1       |
| 110 Hertz.      | 100          | 348011  | 1       |
| 110 Vert.       | 100          | 348011B | 1       |
| 160 x 110       | 150 x 100    | 348014  | 1       |
| 160 x 160       | 150 x 150    | 348015  | 1       |



### Ring Seal Socket

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 50              | 40           | 324003 | 30      |
| 56              | 50           | 324004 | 20      |
| 63              | 50           | 324005 | 20      |
| 75              | 65           | 324007 | 20      |
| 90              | 80           | 324009 | 15      |
| 110             | 100          | 324011 | 10      |
| 160             | 150          | 324015 | 10      |
| 200             | 185          | 324017 | 1       |
| 250             | 225          | 324019 | 1       |
| 315             | 300          | 324021 | 1       |

Note: Larger diameters fabricated to order.



### Palazzi Trap

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 110 x 56        | 100 x 50     | 811056 | 1       |
| 110 x 63        | 100 x 50     | 811063 | 1       |
| 110 x 75        | 100 x 65     | 811075 | 1       |
| 110 x 110       | 100 x 100    | 811110 | 1       |
| 160 x 110       | 150 x 100    | 811161 | 1       |
| 160 x 160       | 150 x 150    | 811160 | 1       |



### P Trap · Fixed Style

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 50              | 40           | 855258 | 10      |
| 56              | 50           | 856518 | 10      |
| 63              | 50           | 856519 | 10      |
| 75              | 65           | 857528 | 10      |
| 90              | 80           | 859538 | 10      |
| 110             | 100          | 860548 | 10      |
| 160             | 150          | 860550 | 5       |



### P Trap · Adjustable Style

| Fitting Size mm | Nominal Bore | Code    | Box Qty |
|-----------------|--------------|---------|---------|
| 50              | 40           | 845258  | 10      |
| 56              | 50           | 846518  | 10      |
| 63              | 50           | 846519  | 10      |
| 75              | 65           | 847528  | 10      |
| 90              | 80           | 849538  | 10      |
| 90 x 75         | 80 x 65      | 849538P | 10      |
| 110             | 100          | 850548  | 10      |
| 110 x 75        | 100 x 65     | 850548P | 10      |
| 160             | 150          | 850550  | 5       |



### S&P Combination Trap

| Fitting Size mm | Nominal Bore | Code    | Box Qty |
|-----------------|--------------|---------|---------|
| 56              | 50           | 320150B | 20      |



### Eccentric Reducer

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 56 x 50         | 50 x 40      | 358002 | 30      |
| 63 x 50         | 50 x 40      | 358005 | 30      |
| 63 x 56         | 50 x 50      | 358006 | 30      |
| 75 x 50         | 65 x 40      | 358009 | 30      |
| 75 x 56         | 65 x 40      | 358010 | 30      |
| 75 x 63         | 65 x 50      | 358011 | 30      |
| 90 x 50         | 65 x 50      | 358015 | 20      |
| 90 x 56         | 80 x 50      | 358016 | 20      |
| 90 x 63         | 80 x 50      | 358017 | 20      |
| 90 x 75         | 80 x 65      | 358019 | 20      |
| 110 x 50        | 100 x 40     | 358023 | 20      |
| 110 x 56        | 100 x 40     | 358024 | 20      |
| 110 x 63        | 100 x 50     | 358025 | 20      |
| 110 x 75        | 100 x 65     | 358027 | 20      |
| 110 x 90        | 100 x 80     | 358029 | 20      |
| 125 x 110       | 115 x 100    | 358031 | 10      |
| 160 x 110       | 150 x 100    | 358038 | 5       |
| 160 x 125       | 150 x 115    | 358039 | 5       |
| 200 x 110*      | 185 x 100    | 358045 | 1       |
| 200 x 160*      | 185 x 150    | 358049 | 1       |
| 250 x 160*      | 225 x 150    | 358050 | 1       |
| 250 x 200*      | 225 x 185    | 358055 | 1       |
| 315 x 200*      | 300 x 185    | 358061 | 1       |
| 315 x 250*      | 300 x 225    | 358063 | 1       |

Note: \* Sizes 200, 250 & 315 are Fabricated.  
110mm In-Pipe Reducers are also available.



### Concentric Reducer

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 56 x 50         | 50 x 40      | 336002 | 30      |
| 63 x 50         | 50 x 40      | 336005 | 30      |
| 63 x 56         | 50 x 50      | 336006 | 30      |
| 75 x 50         | 65 x 40      | 336007 | 30      |
| 75 x 56         | 65 x 50      | 336010 | 30      |
| 75 x 63         | 65 x 50      | 336011 | 30      |
| 90 x 50         | 80 x 40      | 336015 | 20      |
| 90 x 56         | 80 x 50      | 336016 | 20      |
| 90 x 63         | 80 x 50      | 336017 | 20      |
| 90 x 75         | 80 x 65      | 336019 | 20      |
| 110 x 50        | 100 x 40     | 336023 | 20      |
| 110 x 56        | 100 x 50     | 336024 | 20      |
| 110 x 63        | 100 x 50     | 336025 | 20      |
| 110 x 75        | 100 x 65     | 336027 | 20      |
| 110 x 90        | 100 x 80     | 336029 | 20      |
| 160 x 110       | 150 x 100    | 336041 | 5       |



### In-Pipe Adaptor

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 110             | 100          | MP1100 | 1       |





### Bucket Trap

| Fitting Size mm | Nominal Bore | Code    |
|-----------------|--------------|---------|
| 250 x 110       | 225 x 100    | BT25011 |
| 250 x 160       | 225 x 150    | BT25016 |

**Note:** -Inlets or adaptors to DWV welded into order.  
 -Includes Standard 5mm Stainless Steel Grate.  
 -Anti-skid coating available on request.



### WC Pan Collar

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 110             | 100          | 352003 | 1       |



Type A



Type C

### Stainless Steel Basket

| Type                 | Description             | Code   |
|----------------------|-------------------------|--------|
| A - Solid Bottom     | For Sand + Silt Etc     | SSB25A |
| C - Fully Perforated | For Food Prep Areas Etc | SSB25C |



### Weld On End Cap

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 50              | 40           | 340625 | 10      |
| 56              | 50           | 340626 | 10      |
| 63              | 50           | 340627 | 10      |
| 75              | 65           | 340628 | 10      |
| 90              | 80           | 340629 | 10      |
| 110             | 100          | 340630 | 10      |
| 125             | 115          | 340631 | 1       |
| 160             | 150          | 340633 | 1       |
| 200             | 185          | 340634 | 1       |
| 250             | 225          | 340635 | 1       |
| 315             | 300          | 340636 | 1       |



### Male Thread Adaptor

| Fitting Size mm | Nominal Bore | Code     | Box Qty |
|-----------------|--------------|----------|---------|
| 50              | 40mm (1½")   | 23545040 | 1       |
| 56              | 50mm (2")    | 23545650 | 1       |
| 63              | 50mm (2")    | 23546350 | 1       |
| 75              | 65mm (2½")   | 23547565 | 1       |
| 90              | 80mm (3")    | 23549080 | 1       |
| 110             | 100mm (4")   | 23541110 | 1       |



### Stop End Complete

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 50              | 40           | 340003 | 15      |
| 56              | 50           | 340004 | 15      |
| 63              | 50           | 340005 | 15      |
| 75              | 65           | 340007 | 10      |
| 90              | 80           | 340009 | 15      |
| 110             | 100          | 340011 | 10      |
| 160             | 150          | 340016 | 1       |



### Nut & Tail

| Fitting Size mm | Thread Size | Code   | Box Qty |
|-----------------|-------------|--------|---------|
| 50              | 1½"         | 924757 | 1       |
| 50              | 2"          | 924758 | 1       |
| 56              | 1½"         | 924759 | 1       |
| 56              | 2"          | 924760 | 1       |
| 63              | 2"          | 924761 | 1       |



### 4 Way Riser 88.5°

| Fitting Size mm  | Nominal Bore  | Box Code | Qty |
|------------------|---------------|----------|-----|
| 90 x 63 x 50     | 80 x 50 x 40  | 318710   | 10  |
| 110 x 56 x 50    | 100 x 50 x 40 | 318712   | 10  |
| 110 x 56         | 100 x 50      | 318715   | 10  |
| 110 x 63         | 100 x 50      | 318719   | 10  |
| 110 x 63 x 50    | 100 x 50 x 40 | 318720   | 10  |
| 110 x 75 (3-Way) | 100 x 65      | 318721   | 10  |



### DWV to HDPE Adaptor

| DWV Size mm | HDPE Size | Code    | Box Qty |
|-------------|-----------|---------|---------|
| 40          | *50       | 325040  | 1       |
| 50          | 50        | 325050  | 1       |
| 40          | 56        | 325640  | 1       |
| 50          | *56       | 324004D | 1       |
| 50          | *63       | 326350  | 1       |
| 65          | 63        | 326365  | 1       |
| 65          | *75       | 327565  | 1       |
| 80          | 75        | 327580  | 1       |
| 80          | *90       | 329080  | 1       |
| 100         | *110      | 324011D | 1       |
| 150         | *160      | 324015D | 1       |
| 175         | *200      | 324017D | 1       |
| 225         | *250      | 324019D | 1       |
| 300         | *315      | 324021D | 1       |

Note: 1. Flow from DWV to HDPE  
2. \* HDPE Drain EF Coupling required



### HDPE to DWV Adaptor

| HDPE Size mm | DWV Size | Code   | Box Qty |
|--------------|----------|--------|---------|
| 110          | 100      | 321011 | 1       |
| 160          | 150      | 321516 | 1       |

Note: Flow from HDPE to DWV



### Copper to HDPE Rubber Grommit Adaptor

| Copper Size mm | HDPE Size | Code   | Box Qty |
|----------------|-----------|--------|---------|
| 40             | 50        | 334005 | 1       |
| 50             | 63        | 334009 | 1       |

Note: Flow from Copper to HDPE



### Copper to HDPE Adaptor

| Copper Size mm | HDPE Size | Code    | Box Qty |
|----------------|-----------|---------|---------|
| 50             | *50       | 324003C | 1       |
| 50             | *56       | 335650  | 1       |
| 65             | *63       | 336365  | 1       |
| 65             | *75       | 337565  | 1       |
| 80             | *75       | 337580  | 1       |
| 80             | *90       | 339080  | 1       |
| 100            | *100      | 331110  | 1       |

Note: 1. Flow from Copper to HDPE  
2. \* HDPE Drain EF Coupling required





### Nut Clip

| Clip (OD) | Code   | Box Qty |
|-----------|--------|---------|
| 50        | 305004 | 15      |
| 56        | 305005 | 15      |
| 63        | 305006 | 15      |
| 75        | 305007 | 10      |
| 90        | 305008 | 15      |
| 110       | 305009 | 10      |
| 125       | 305010 | 10      |
| 160       | 305011 | 1       |
| 200       | 305012 | 1       |
| 250       | 305013 | 1       |
| 315       | 305014 | 1       |



### Puddle Flange

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 50              | 40           | 344050 | 1       |
| 56              | 50           | 344056 | 1       |
| 63              | 50           | 344063 | 1       |
| 75              | 65           | 344075 | 1       |
| 90              | 80           | 344090 | 1       |
| 110             | 100          | 344110 | 1       |
| 160             | 150          | 344160 | 1       |
| 200             | 175          | 344200 | 1       |
| 250             | 225          | 344250 | 1       |
| 315             | 300          | 344315 | 1       |

**Note:** Non-Standard Puddle Flanges made to order.



### Floor Grate · Drop in Style

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 110             | 100          | 321103 | 1       |
| 160             | 150          | 321603 | 1       |

**Note:** Comes standard with 2mm plain finish stainless steel grate.

Anti-slip coating available on request.



### Bolted Tap Screw · Drop in Style

| Fitting Size mm | Nominal Bore | Code   | Box Qty |
|-----------------|--------------|--------|---------|
| 110             | 100          | 321105 | 1       |
| 160             | 150          | 321605 | 1       |

**Note:** Comes standard with 2mm plain finish stainless steel grate.

Anti-slip coating available on request.



### Stub Flange Adaptor

| Fitting Size mm | Nominal Bore | Code      | Box Qty |
|-----------------|--------------|-----------|---------|
| 50              | 40           | 4416 0050 | 15      |
| 56              | 50           | 4416 0056 | 15      |
| 63              | 50           | 4416 0063 | 15      |
| 75              | 65           | 4416 0075 | 10      |
| 90              | 80           | 4416 0090 | 10      |
| 110             | 100          | 4416 0110 | 10      |
| 125             | 115          | 4416 0125 | 10      |
| 160             | 150          | 4416 0160 | 1       |
| 200             | 185          | 4416 0200 | 1       |
| 250             | 225          | 4416 0250 | 1       |
| 315             | 300          | 4416 0315 | 1       |



### Bolt Sets · Table D Steel Flange Connection

| HDPE Flange Size mm | Steel Flange Size Metric | Max. Flange Thickness* | Code Galvanised M/S |
|---------------------|--------------------------|------------------------|---------------------|
| 50                  | 40                       | 14                     | 9661 0050           |
| 56                  | 50                       | 15                     | 9661 0056           |
| 63                  | 50                       | 16                     | 9661 0063           |
| 75                  | 65                       | 24                     | 9661 0075           |
| 90                  | 80                       | 20                     | 9661 0090           |
| 110                 | 100                      | 40                     | 9662 0110           |
| 125                 | 125                      | 40                     | 9662 0125           |
| 160                 | 150                      | 30                     | 9662 0160           |
| 200                 | 200                      | 36                     | 9662 0200           |
| 250                 | 250                      | 38                     | 9662 0250           |
| 315                 | 300                      | 36                     | 9662 0315           |

Note: Also available in stainless steel



### GMS Table D Backing Flange

| Fitting Size mm | Nominal Flange Size | Nominal Inch Size | Code      |
|-----------------|---------------------|-------------------|-----------|
| 50              | 40                  | 1½"               | 5441 0050 |
| 56              | 50                  | 2"                | 5441 5663 |
| 63              | 50                  | 2"                | 5441 0063 |
| 75              | 65                  | 2½"               | 5441 0075 |
| 90              | 80                  | 3"                | 5441 0090 |
| 110             | 100                 | 4"                | 5441 0110 |
| 125             | 100                 | 4"                | 5441 4125 |
| 125             | 125                 | 5"                | 5441 5125 |
| 160             | 150                 | 6"                | 5441 0160 |
| 200             | 200                 | 8"                | 5441 0200 |
| 250             | 250                 | 10"               | 5441 0250 |
| 315             | 300                 | 12"               | 5441 0315 |



### Gasket · Full Face 3mm Rubber Insertion

| Fitting Size mm | Nominal Bore | Code      | Box Qty |
|-----------------|--------------|-----------|---------|
| 50              | 40           | 9685 0050 | 1       |
| 56              | 50           | 9685 0056 | 1       |
| 63              | 50           | 9685 0063 | 1       |
| 75              | 65           | 9685 0075 | 1       |
| 90              | 80           | 9685 0090 | 1       |
| 110             | 100          | 9685 0110 | 1       |
| 125             | 115          | 9685 0125 | 1       |
| 160             | 150          | 9685 0160 | 1       |
| 200             | 185          | 9685 0200 | 1       |
| 250             | 225          | 9685 0250 | 1       |
| 315             | 300          | 9685 0315 | 1       |



### Electrofusion Welding Machine

| Size Range mm | Code   |
|---------------|--------|
| 50 - 160      | 700160 |



### Electrofusion Welding Machine

| Size Range mm | Code     |
|---------------|----------|
| 200 - 630*    | SBOX-MAX |

\*NOTE: Depending on brand of EF coupler



### Acu-Tech Polyweld Wipes

| Product | Qty      | Code   | Box Qty |
|---------|----------|--------|---------|
| Wipes   | 75 Wipes | 946666 | 15      |



### Pipe Scraper

| Product | Size mm  | Code   | Box Qty |
|---------|----------|--------|---------|
| Scraper | 50 x 315 | 947777 | 15      |



## Clipping Methods · Installation Guide

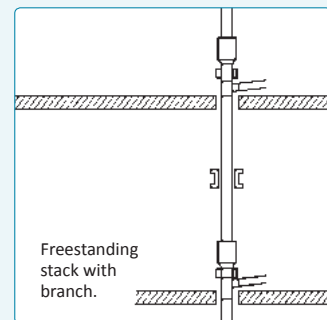
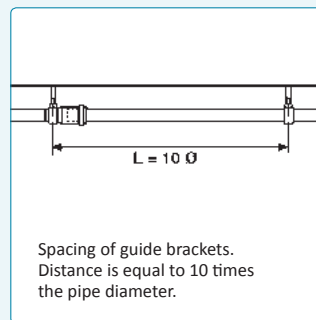
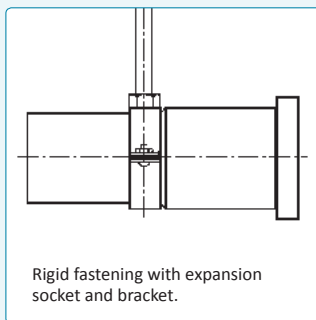
Like all materials HDPE expands and contracts with temperature changes. HDPE expands by 0.2mm per metre for every degree C increase in temperature. The installation of expansion sockets on each floor of a vertical stack, at no more than 5 metres apart on horizontal runs and upstream of each junction fitting or change of direction compensates for expansion and contraction.

Expansion sockets should be bracketed rigidly to prevent any movement of the expansion socket.

In addition, to allow axial movement caused by the effects of expansion and contraction, loose guide brackets are used at no more than 10 pipe diameters apart and from the expansion joint.

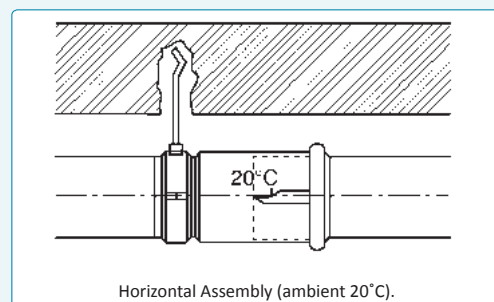
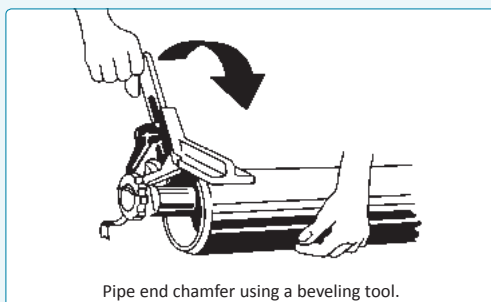
For a vertical stack one rigid bracket is located at the expansion joint and one guide bracket is located between the expansion joint and the branch.

Installers should also refer to the requirements of AS/NZS 3500.2 "Sanitary Plumbing & Drainage."



## Expansion Socket · Installation Guide

1. Chamfer the pipe end to be inserted to approximately 15 degrees.
2. Lubricate the pipe end with soft soap or other suitable lubricant. Do not use oil or grease.
3. Insert pipe to the depth indicated on the expansion socket which for an ambient temperature of 20 degrees C is a depth of 105mm or 2/3 of the depth of the socket approximately.



## Buried HDPE Drainage · Installation Guide

Polyethylene pipes can also be used in several underground applications. Design and installation should follow the requirements of AS/NZS 2566 "Buried Flexible Pipelines" and AS/NZS 3500 "Sanitary Plumbing & Drainage," and the requirements of local authorities.

Particular attention must be paid to the trench which is to hold the pipes and it should be carried out with the recommended sizes as illustrated below.

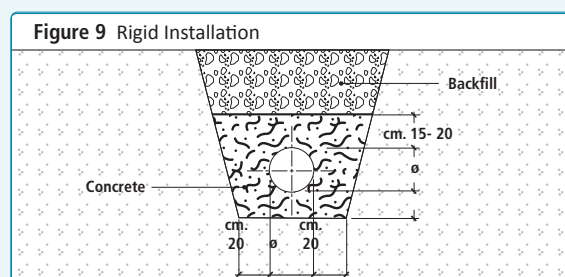
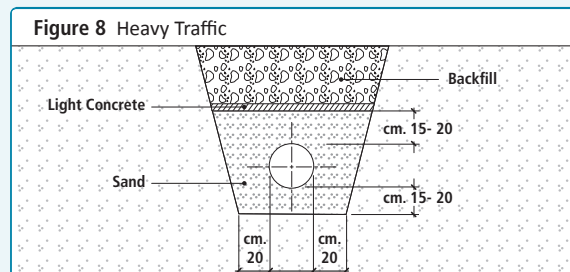
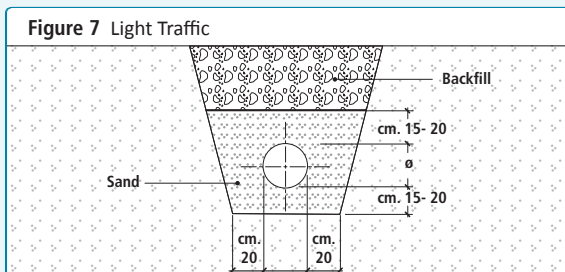
The bed of the trench where the pipe is to be laid must be completely flat and should be free from stones or sharp objects. The pipe bedding material needs to be a minimum of 10cm of sand to provide a continuous support along the whole length of the pipe. The first 15-20cm of cover over the pipe should be of the same material. The cover must be compressed to prevent pipe movement. Sand compacting should be carried out immediately after the pipe has been covered.

The depth of the trench will depend on the presence of heavy vehicles or also the possibility of freezing temperatures.

For calculation the following indications in Figures 7 to 10, the official guidelines, standards and regulations should be observed.

A minimum of 80cm must cover the top of the pipe (see Figure 7); if heavy vehicles are to pass over the top it is recommended to cover the layer of sand with light concrete casting in order to evenly distribute the ground pressure (see Figure 8). If two or more pipes are to be laid in the same trench, they should not come into contact. A distance of 10 to 15 cm should be left between the two pipes to allow for future maintenance work. This space should be filled with sand and compacted on both sides at the same time. The examples indicated represent normal laying conditions. Figure 9 shows a trench where the pipe is covered with concrete; here the behaviour of the pipeline will be rigid and will not undergo deformations; whereas Figures 7 and 8 represent flexible installations.

In underground installations, the ambient temperature is fairly stable and the fluid temperatures from many inlets have usually mixed and stabilised through the above ground pipe work. Expansion sockets therefore may not be required.



## Fire Protection · Installation Guide

HDPE is not self-extinguishing and therefore fire stops must be installed in accordance with the relevant standard.

## Electrofusion Welding · Installation Guide



- 1 Cut pipe square using a proper pipe cutter or a hand mitre saw.
- 2 Using a HDPE pipe scraper, scrape the pipe ends (or the fittings to be welded) in order to remove the oxide layer. It is critical to ensure that the scrapes overlap, and that all the oxide layer is completely removed. Scratching or abrading is not sufficient, and will affect joint integrity.
- 3 Remove burrs on the pipe end using the scraper. Clean the pipe ends and fittings using disposable Acu-Tech Welding Wipes and ensure that pipe and fittings are completely dry before assembly.
- 4 Insert pipe or fitting end in to the electrofusion coupling. Make sure that the pipes/ fittings are straight and there is no moisture present. Plug EF welding machine into mains power or start generator before switching the EF welder on. It is also important to ensure that the EF welder is protected from power surges.
- 5 Connect leads from EF welder to the EF coupling and start the welding process by pushing the button. Detailed instructions on the use of the EF welder can be found in the case.
- 6 When the EF welder stops, remove the leads. Visually check the EF coupling to ensure that the indicators have come out, or the white welding indicator has turned grey, depending on the brand. Also ensure that the pipe has not moved during the weld.
- 7 Allow 10-15 minutes cool time before putting any strain on the welded joint.

The above guide is intended as an overview only and must not be used in place of formal training by an authorised electrofusion instructor. For training and accreditation call us on **1300 270 270**





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